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Making Paths Explicit in the Scout Operating System

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David Mosberger, Larry Peterson

Operating Systems Design and Implementation

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Abstract: This paper makes a case for paths as an explicit abstraction in operating system design. Paths provide a unifying infrastructure for several OS mechanisms that have been introduced in the last several years, including fbufs, integrated layer processing, packet classifiers, code specialization, and migrating threads. This paper articulates the potential advantages of a path-based OS structure, describes the specific path architecture implemented in the Scout OS, and demonstrates the advantages... ([Update](#))

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...languages. The Naccio project of MIT [2] uses also the mechanisms provided by Java. Joust [6] is a Java active OS implemented in Scout [12] and provides a Java virtual machine for the execution of active services. The measurements were made with a Pentium III 800 machine...

.... application specific handlers that may be installed directly into the kernel (Plexus [14] and ASHs [27] Operating systems such as Scout [21] and x kernel [16] were designed explicitly to support sophisticated network based applications. In these systems, users may even...

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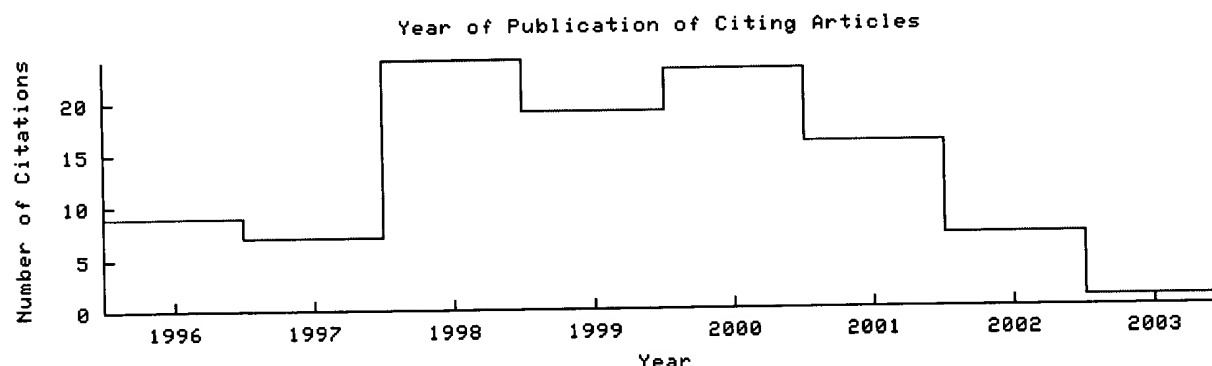
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